

NGGDPP Project Final Report

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Project Title: Nevada Collections Inventory and Metadata for the National Catalog

Name of the State Geological Survey: Nevada Bureau of Mines and Geology

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Nevada Collections Inventory and Metadata for the National Catalog

Abstract

Through this project, the Nevada Bureau of Mines and Geology (NBMG) entered a total of 1209 new records to and updated 72 existing records in the NBMG Sample Collection Database (CORECUT), Nevada Oil and Gas Well Index (NVOILWEL), and Nevada Mining District Files Index (NVGEODEX). The additions included entries covering: 1). rock samples for 488 drill holes and 71 chip sample sites for 44 mineral exploration projects; 2). sets of drill cuttings for six oil wells; 3). 82 fanfold logs; and 4). about 1,100 large maps and 6,600 legal, letter, and ledger sized pages. These collections were formatted in accordance with the NGGDPP Metadata Preparation Guide (01/2013). Two older duplicate versions of CORECUT and NVGEODEX were also identified in the National Catalog for removal as being superfluous and potential sources of future confusion. The metadata spreadsheets and updated descriptions were submitted to Natalie Latysh, USGS Core Science Systems, for addition to the National Catalog.

Project Report

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Sample Collection Database (CORECUT)

The NBMG Sample Collection Database (CORECUT), which is an index of a number of large and small rock sample collections housed at the NBMG, was updated and the metadata submitted to the National Catalog. An earlier version of CORECUT under ID No. 4f4e49cbe4b07f02db5d88ee was noticed in the National Catalog and was requested to be removed as superfluous. The samples indexed in CORECUT include hand samples, drill cuttings and core, chipboards, slabs, thin sections, and some samples crushed for geochemical analysis. The samples have identifying paperwork that has been curated in separate collections. Many of the samples are from now inaccessible places, and the core and cuttings are from mining, oil, and geothermal projects which cost from several hundred thousand to several million dollars to conduct. About 5,000 of the samples were geochemically analyzed through various USGS grants.

In 2014, CORECUT contained 11,116 entries. 10,494 entries had locations in longitude and latitude and were entered into the National Catalog as “Nevada Bureau of Mines and Geology Sample Collection Database”, with the NGGDPP-assigned unique metadata collection ID No. 5494ba35e4b0a2b9adad8ee3. CORECUT was updated with the addition of 632 new records from three sets of donations. These included: 1). 56 entries covering 55 drill holes in nine

projects in the U.S. Bureau of Mines donation; 2). 381 entries covering the same number of drill holes in 33 projects in the FMC Gold Co. donation; and 3). 164 entries covering 52 drill holes and 71 chip samples in the Pyramid donation. Few boxes of the FMC and Pyramid donations needed reboxing, however 197 boxes of the 333 boxes covering the U.S. Bureau of Mines donation were reboxed. Accessioning of two of the projects in the U.S. Bureau of Mines donation was part of Task 1 and the completion of accessioning of the FMC Gold Co. donation was Task 3 of this Grant. Projects from these donations had been accessioned as part of previous NGGDPP Grants. These tasks took less time than expected which allowed for the accessioning of seven more projects of the U.S. Bureau of Mines donation and the Pyramid donation. The Pyramid donation came from the Golden Crescent Corp. about 1995 and consists of sets of core, cuttings, and pulps with related documents and maps from exploration projects in the Pyramid Mining District by Lac Minerals USA and Battle Mountain Exploration Co. The documents and maps had been entered and scanned into NVGEODOX at least a decade ago, but the samples had not been accessioned until this grant.

Field Descriptions:

- Collection ID:** Number assigned by NGGDPP personnel
- Title:** Document Title, which will mainly include: collection or project name and sample number and usually a rock or location name sometimes with a brief description for collection samples, project and hole name for mineral exploration, and operator and well name for oil and geothermal well samples.
- Abstract:** Compilation containing the NBMG Index No. for all samples and other information including but not limited to: original sample, drill hole, and well descriptions and notes; collection or project name; collector; commodities; drill sample intervals; location problems; logs if available; missing or condensed samples; and well status.
- Type:** Sample type: chip board, chip tray, concentrates, core, core, crushed sample, cuttings, hand sample, jar, pulp, slab, thin section, and/or thin section plug.
- Supplemental Information:** Website containing database and related search engine.
- Coordinates:** Site location in Latitude and Longitude (NAD 83), which marks the exact site for most samples, but when exact site is uncertain, it may mark the center point location of a mining district, the center point of a topographic map, or center point of a portion of the public land survey.
- DatasetReferenceDate:** Date data table was created for NGGDPP.
- AlternateTitle:** Other indentifying information when applicable including: alternate collection or project names, alternate sample numbers, API numbers, codes, and permit numbers.
- AlternateGeometry:** Various other location references when known and applicable including: county; known geothermal resource area, mining district, oil field, public land survey, and UTM's (for all entries) in NAD 1927.
- Date:** Date when sample was taken or hole completed.
- BrowseGraphic:** HTML online link to PDFs of scanned documents.
- VerticalExtent:** Units (ft – feet), maximum depth, and minimum depth for core and/or cuttings interval for drill hole samples.

Nevada Oil and Gas Well Index (NVOILWEL)

The NBMG Nevada Oil and Gas Well Index (NVOILWEL), which is an index of the files, logs, and drill cutting and core samples of oil and gas wells drilled in Nevada, was updated and the metadata submitted to the National Catalog.

In the last update to the National Catalog in 2012, NVOILWEL contained 1061 records, the paper copies of which had mostly been scanned as TIFs for the paper logs and PDFs for the rest of the paper files. The entries had locations in longitude and latitude and were entered into the National Catalog as “Nevada Bureau of Mines and Geology Oil and Gas Well Database”, with the NGGDPP-assigned unique metadata collection ID No. 5494ba35e4b0a2b9adad8ee3. As part of Task 4, NVOILWEL was updated with the addition of 49 new files and documents added to 72 older files. The additions to the older files included the results from sampling 25 sets of cuttings that had been released from their 5-year confidentiality period. The new material was scanned in 300 dpi color and included 82 logs scanned as TIFs on a NeuraScanner log scanner and over 3,200 pages of other documents scanned directly as PDFs. The scanned files will be used to update the previously scanned files now on the NBMG website for free public viewing.

During the update of NVOILWEL, sets of cuttings to six wells were included in the update of CORECUT.

Field Descriptions:

- Collection ID:** Number assigned by NGGDPP personnel
- Title:** NBMG Object ID Number; operator name; well name.
- Abstract:** Description of well file contents; elevation; permit issue date; completion date; latest known well status; list of logs; sample intervals.
- Type:** Paper (the form of the original documents), and format if scanned (TIF, PDF)
- SupplementalInformation:** Website containing listing and any scan of documents.
- Coordinates:** Site location in Latitude and Longitude (NAD 83).
- DatasetReferenceDate:** Date data table was created for NGGDPP.
- AlternateTitle:** Old NGGDPP file number, American Petroleum Institute Number, and Nevada Division of Minerals Permit Number
- AlternateGeometry:** County; UTM location; Public Land Survey location; Distance from Public Land Survey section line
- Date:** Year of completion or issue of permit if site was not drilled.
- BrowseGraphic:** HTML online link to PDFs and/or TIFs of scanned documents.
- VerticalExtent:** Units (m – meters), maximum depth (total depth), and minimum depth (0 for ground level)

The NVOILWEL database was updated, and its metadata was submitted to the National Catalog to update the previous submission (ID No. 4f4e49d8e4b07f02db5df325).

Mining District File Index (NVGEODEX)

The NBMG Nevada Mining District Files Index (NVGEODEX) was updated and the metadata submitted to the National Catalog. NVGEODEX is the index of the NBMG Mining District Files, which consists of maps, reports, photographs, printed spreadsheets and tables, assays,

correspondence, claim and mine locations, mine workings information, and related materials dating from the 1860s to the present. Much of it is one-of-a-kind. The indexed documents contain a unique identification number and most have been scanned as 300 dpi TIFFs for archiving and converted to PDFs for viewing on our website. An earlier version of NVGEODEX under ID No. 4f4e49cbe4b07f02db5d859c was noticed in the National Catalog and was requested to be removed as superfluous.

NVGEODEX in the National Catalog was last updated in 2012 when the metadata for 26,295 records was submitted and given the NGGDPP-assigned unique metadata collection ID number 4f4e49cbe4b07f02db5d877f. As part of Task 2, NVGEODEX was updated with the addition of 528 documents containing almost 1,100 large maps and over 3,400 letter to legal sized pages. Scanning took longer than expected, so of the total, 215 documents containing 618 large maps and 2,538 legal sized pages were scanned as 300 dpi color TIFFs for future conversion to PDFs and quality assurance. Though the new documents are not presently viewable on-line at this time, their existence is still documented in NVGEODEX, and the paper copies are available for public viewing at the Great Basin Science Sample and Records Library.

Field Descriptions:

- Collection ID:** Number assigned by NGGDPP personnel
- Title:** Document Title.
- Abstract:** Name of mining district or County if site is not in a district; document description; list of site/mine/claim names mentioned in document; commodities; authors of document.
- Type:** Paper (the form of the original documents), and format if scanned (TIF, PDF)
- SupplementalInformation:** Website containing listing and any scan of documents.
- Coordinates:** Site location in Latitude and Longitude (NAD 83) based on center point location of the mining district, center point of the county for documents not associated with a district, with some county-only sites having their locations plotted and being measured on 7.5' topographic maps.
- DatasetReferenceDate:** Date data table was created for NGGDPP.
- AlternateTitle:** NBMG ID Number.
- AlternateGeometry:** Mining district and County.
- Date:** Date of document or latest date if document spans a range of dates.
- BrowseGraphic:** HTML online link to PDFs of scanned documents.

Summary

The additions to and updating of the NBMG Sample Collection Database (CORECUT), Nevada Oil and Gas Well Index (NVOILWEL), and Nevada Mining District Files Index (NVGEODEX) and their inclusion in the NGGDPP National Catalog will help increase public awareness and access to this significant earth-science collection at the NBMG. They will increase efficiency in responding to information inquiries, make significantly more Earth-science information about Nevada universally available on the Web, and add significantly to the development of the National Digital Catalog of the National Geologic and Geophysical Data Preservation Program.